

## p24 Antibody-Peptide Reactivity

Location	Name	MAb	Peptide	Immunogen	Species(isotype)
	o References				
	• Comments				
p24(14-23 HXB2)	F5-2	y	AISPRTLNAW	?	murine
	o [Kusk et al.(1988), Kusk et al.(1992)]				
	• F5-2: In HIV-1+ individuals, antibody to AISPRTLNAW is associated with CD4 T-cell decline [Kusk et al.(1988), Kusk et al.(1992)]				
p24(122-149 BH10)	3A6	y	TGHSSQVSQNYPIVQNIQGQMVHQAIISP	HIV-1 infection	human(IgG <sub>1</sub> (κ))
	o [Buchacher et al.(1992), Buchacher et al.(1994)]				
	• 3A6: Human MAbs against HIV generated by electrofusion of PBLs from HIV-1 positive volunteers with CB-F7 cells [Buchacher et al.(1994)]				
p24(134-153 IIIB)	111/182	y	PIVQNIQGQMVHQAIISPRTL	IIIB p24-β-gal fusion	murine(IgG <sub>1</sub> )
	o [Niedrig et al.(1991)]				
p24(134-153 IIIB)	112/021	y	PIVQNIQGQMVHQAIISPRTL	IIIB p24-β-gal fusion	murine(IgG <sub>1</sub> )
	o [Niedrig et al.(1991)]				
p24(134-153 IIIB)	112/047	y	PIVQNIQGQMVHQAIISPRTL	IIIB p24-β-gal fusion	murine(IgG <sub>1</sub> )
	o [Niedrig et al.(1991)]				
	• 111/182, 112/021, and 112/047: test specific evidence of cross-reactivity between HIV-1, HIV-2 and SIV MAC, with some assays it was clear, with others it was not [Niedrig et al.(1991)]				
p24(152-156)	CB-mab-p24/13-15	y	NAWK	?	murine(IgG <sub>1</sub> κ)
	o [Kuttner et al.(1992), Grunow et al.(1990)]				
	• CB-mab-p24/13-15: Sequences spanning the VDJ <sub>H</sub> and VJ <sub>L</sub> regions of CB-mab-p24/13-15 [Kuttner et al.(1992)]				
p24(153-174 HXB2)	F5-4	y	IRQGPKEPFRDYVDRFYKTLRAE	?	murine
	o [Kusk et al.(1992), Kusk et al.(1988)]				
	• F5-4: Located in the most hydrophilic region of p24 [Kusk et al.(1992), Kusk et al.(1988)]				
p24(183-192 IIIB)	111/052	y	DLNTMLNTVG	IIIB p24-β-gal fusion	murine(IgG <sub>1</sub> )
	o [Niedrig et al.(1991)]				
	• Weak cross-reaction with HIV-2 on Western blot, otherwise not cross-reactive with HIV-2 or SIV MAC [Niedrig et al.(1991)]				

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p24(201-218 BRU)	47-2	y	LKETINEAAEWD <sup>R</sup> VHPV	HIV-1 BRU	murine(IgG)
	○ [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]				
p24(201-218 BRU)	14D4E11	y	LKETINEAAEWD <sup>R</sup> VHPV	IIIB p25	murine(IgG)
	○ [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a), Janvier et al.(1990)]				
p24(201-218 BRU)	714/01	y	LKETINEAAEWD <sup>R</sup> VHPV	IIIB virus	murine(IgG)
	○ [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]				
p24(201-218 BRU)	1109/01	y	LKETINEAAEWD <sup>R</sup> VHPV	IIIB virus	murine(IgG)
	○ [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]				
p24(201-218 BRU)	1G5C8	y	LKETINEAAEWD <sup>R</sup> VHPV	IIIB virus	murine(IgG)
	○ [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a), Janvier et al.(1990)]				
p24(203-213 IIIB)	113/038	y	ETINEAAEWD	IIIB p24-β-gal fusion	murine(IgG <sub>1</sub> )
	○ [Niedrig et al.(1991)]				
p24(203-213 IIIB)	111/073	y	ETINEAAEWD	IIIB p24-β-gal fusion	murine(IgG <sub>1</sub> )
	○ [Niedrig et al.(1991)]				
	● 113/038 and 111/073: are cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple assays [Niedrig et al.(1991)]				
p24(213-222 IIIB)	113/072	y	DRVHPVHAGP	IIIB p24-β-gal fusion	murine(IgG <sub>1</sub> )
	○ [Niedrig et al.(1991)]				
	● 113/072: Weak cross-reaction with HIV-2 on WB, otherwise not cross-reactive with HIV-2 or SIV MAC [Niedrig et al.(1991)]				
p24(203-217)	1-E-4	y	ETINEAAEWD <sup>R</sup> VHP	IIIB virus	murine(IgG)
	○ [Niedrig et al.(1989)]				
p24(203-217)	2-E-4	y	ETINEAAEWD <sup>R</sup> VHP	IIIB virus	murine(IgG <sub>2a</sub> )
	○ [Niedrig et al.(1989), Niedrig et al.(1988)]				
	● 2-E-4: Cross reactive between HIV-2, HIV-2 and SIV by ELISA, HIV-1 and HIV-2 by WB [Niedrig et al.(1988)]				

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		• Comments			
p24(203-217)	2-H-4	y	ETINEAAEDRVHP	IIIB virus	murine(IgG <sub>1</sub> )
		• 2-H-4: Cross reactive between HIV-2, HIV-2 and SIV by ELISA, HIV-1 and HIV-2 by WB [Niedrig et al.(1988)]			
		o [Niedrig et al.(1989), Niedrig et al.(1988)]			
p24(203-217)	8-D-2	y	ETINEAAEDRVHP	IIIB virus	murine(IgG <sub>2a</sub> )
		• 8-D-2: HIV-1 specific [Niedrig et al.(1988)]			
		o [Niedrig et al.(1989), Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]			
p24(203-217)	8-H-7	y	ETINEAAEDRVHP	IIIB virus	murine(IgG <sub>3</sub> )
		o [Niedrig et al.(1988), Niedrig et al.(1989), Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]			
p24(203-217)	8-G-9	y	ETINEAAEDRVHP	IIIB virus	murine(IgG)
		o [Niedrig et al.(1989)]			
p24(203-217)	10-E-7	y	ETINEAAEDRVHP	IIIB virus	murine(IgG <sub>1</sub> )
		o [Niedrig et al.(1989), Niedrig et al.(1988)]			
		• 10-E-7: Cross reactive between HIV-2, HIV-2 and SIV [Niedrig et al.(1988)]			
		o [Niedrig et al.(1989)]			
p24(203-217)	10-G-9	y	ETINEAAEDRVHP	IIIB virus	murine(IgG <sub>1</sub> )
		o [Niedrig et al.(1989), Niedrig et al.(1988)]			
		• 10-G-9: HIV-1 specific [Niedrig et al.(1988)]			
p24(203-217)	11-C-5	y	ETINEAAEDRVHP	IIIB virus	murine(IgG <sub>1</sub> )
		o [Niedrig et al.(1989), Niedrig et al.(1988)]			
		• 11-C-5: HIV-1 specific [Niedrig et al.(1988)]			
		o [Niedrig et al.(1989)]			
		• 1-E-4, 1-E-9, 2-E-4, 2-H-4, 8-D-2, 8-H-7, 8-G-9, 10-E-7, 10-G-9, and 11-C-5: Nine MAbs interact with this peptide; 2-E-4, 2-H-4, and 10-E-7 were cross-reactive with HIV-2 ROD; 10-E-7 was also cross reactive with SIV MAC [Niedrig et al.(1989)]			

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Location	Name	MAb	Peptide	Immunogen	Species(isotype)
	o References				
	• Comments				
p24(203-217 HXB2)	C5123	y	ETINEEAAEWDRVHP	Inactivated HIV lysate	murine(IgG <sub>1</sub> <sub>κ</sub> )
	o [Hinkula et al.(1990)]				
	C5123: Epitope defined by pept. blocking of binding to native protein; WB reactive with p53 and p24 [Hinkula et al.(1990)]				
p24(208-217 BH10)	1-B-7	y	EAAEWDRVHP	IIIB	murine(IgG <sub>1</sub> )
	o [Niedrig et al.(1989), Niedrig et al.(1988)]				
p24(208-217 BH10)	3-B-7	y	EAAEWDRVHP	IIIB	murine(IgG <sub>1</sub> )
	o [Niedrig et al.(1989), Niedrig et al.(1988)]				
p24(208-217 BH10)	6-D-12	y	EAAEWDRVHP	IIIB	murine(IgG <sub>1</sub> )
	o [Niedrig et al.(1989), Niedrig et al.(1988)]				
p24(208-217 BH10)	6-E-7	y	EAAEWDRVHP	IIIB	murine(IgG <sub>1</sub> )
	o [Niedrig et al.(1989), Niedrig et al.(1988)]				
p24(208-217 BH10)	8-D-5	y	EAAEWDRVHP	IIIB	murine(IgG)
	o [Niedrig et al.(1989), Niedrig et al.(1988)]				
	• 1-B-7, 3-B-7, 6-D-12, 6-E-7, and 8-D-5: react with two overlapping peptides; the region of overlap is given; 8-D-5 bound only HIV-1;				
	3-B-7, 6-D-12, 6-E-7, and 1-B-7 cross-reacted with HIV-2;				
	1-B-7 and 6-E-7 also reacted with SIV MAC [Niedrig et al.(1989)]				
p24(208-222 HXB2)	FF1	y	EAAEWDRVHPVHAGP	Inactivated HIV	murine(IgG <sub>1</sub> <sub>κ</sub> )
	o [Hinkula et al.(1990)]				
	• FF1: Epitope defined by pept. blocking of binding to native protein; WB reactive with p53 and p24 [Hinkula et al.(1990)]				
p24(219-233 BRU)	RL4.72.1	y	HAGPIAPGQMREPRG	NDK	murine(IgG)
	o [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a), Tatsumi et al.(1990)]				
	• RL4.72.1: Immunized with inactivated HIV NDK, D clade, reacts with B clade peptide [Robert-Hebmann et al.(1992a)]				

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	○ References				
	● Comments				
p24(233-253 BRU)	406/01	y	GSDIAGTTSTLQEIQIGWMTNN	IIIB	murine(IgG)
	○ [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]				
p24(253-262 HXB2)	38:9.6K	y	NPPIPVGEIY	rec p24-15	murine(IgG <sub>1κ</sub> )
	○ [Hinkula et al.(1990)]				
	● 38:9.6K: Epitope defined by peptide blocking of binding to native protein; WB reactive with p53 and p24 [Hinkula et al.(1990)]				
p24(275-280 BRU)	LH-104-E	y	RMYSPT	Peptide	murine(IgG <sub>1κ</sub> )
	○ [Haaheim et al.(1991)]				
	● LH-104-E: Reacts with both p24 and p55 [Haaheim et al.(1991)]				
p24(281-286 BRU)	LH-104-K	y	SILDIR	Peptide	murine(IgG <sub>1κ</sub> )
	○ [Haaheim et al.(1991)]				
	● LH-104-K: Binds exclusively with p24 (not p55) [Haaheim et al.(1991)]				
p24(285-304 BRU)	23A5G5	y	IRQGPKEPFRDYVDRFYKTL	IIIB p25	murine(IgG)
	○ [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a), Janvier et al.(1990)]				
p24(285-310 BRU)	MO9.42.2	y	IRQGPKEPFRDYVDRFYKTLRAEQAS	HIV2 ROD	murine(IgG)
	○ [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]				
p24(285-310 BRU)	MO9.50.2	y	IRQGPKEPFRDYVDRFYKTLRAEQAS	HIV2 ROD	murine(IgG)
	○ [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a)]				
	● MO9.42.2 and MO9.50.2: Reacts with HIV-1s, HIV-2s, and SIVs in rec protein ELISA [Robert-Hebmann et al.(1992b)]				
p24(289-303 IIIB)	V10	y	QGPKEPFRDYVDRFY	virion	murine
	○ [Matsuo et al.(1992)]				
	● V10: Reacts with HIV-1 and SIV <sub>AGM</sub> analogous peptides [Matsuo et al.(1992)]				
p24(289-311 IIIB)	V107	y	QGPKEPFRDYVDRFYKTLRAEQA	Virion	murine
	○ [Matsuo et al.(1992)]				
	● V107: Reacts with FIV, HIV-1 and SIV <sub>AGM</sub> analogous peptides [Matsuo et al.(1992)]				

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			◦ References		
			• Comments		
p24(293-302 BH10)	12-B-4	y	FRDYVDRFYK	IIIB virus	murine(IgG <sub>1</sub> )
			◦ [Niedrig et al.(1989), Niedrig et al.(1988)]		
			• 12-B-4: Overlap between two HIV-1 reactive peptides; cross-reacts with HIV-2 ROD and SIV MAC		
p24(293-302 HXB2)	C5122	y	FRDYVDRFYK	Inactivated HIV lysate	murine(IgG <sub>1κ</sub> )
			◦ [Hinkula et al.(1990)]		
			• C5122: Defined by peptide blocking of binding to native protein; WB reactive with p53 and p24 [Hinkula et al.(1990)]		
p24(302-320 BRU)	9A4C4	y	KTLRAEQASQEVKNWMTET	IIIB p25	murine
			◦ [Robert-Hebmann et al.(1992b), Robert-Hebmann et al.(1992a), Janvier et al.(1990)]		
p24(308-322 HXB2)	BE3	y	QASQEVKNWMTETLL	rec p24-15	murine(IgG <sub>1κ</sub> )
			◦ [Hinkula et al.(1990)]		
			• BE3: Defined by peptide blocking of binding to native protein; WB reactive with p53 and p24 [Hinkula et al.(1990)]		
p24(308-322 HXB2)	L14	y	QASQEVKNWMTETLL	rec p24-15	murine(IgG <sub>1κ</sub> )
			◦ [Hinkula et al.(1990)]		
			• L14: Defined by peptide blocking of binding to native protein; WB reactive with p53 and p24 [Hinkula et al.(1990)]		
p24(313-322 IIIB)	110/015	y	VKNWMTETLL	IIIB p24-β-gal fusion	murine(IgG <sub>1</sub> )
			◦ [Niedrig et al.(1991)]		
p24(313-322 IIIB)	108/03	y	VKNWMTETLL	IIIB p24-β-gal fusion	murine(IgG <sub>1</sub> )
			◦ [Niedrig et al.(1991)]		
			• 110/015 and 108/03: Cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple tests [Niedrig et al.(1991)]		
p24(333-347 HXB2)	FH2	y	ILKAL GPAATLEEMM	rec p24-15	murine(IgG <sub>1κ</sub> )
			◦ [Hinkula et al.(1990)]		
			• FH2: Defined by peptide blocking of binding to native protein; WB reactive with p53 and p24 [Hinkula et al.(1990)]		
p24(343-362 IIIB)	106/01	y	LEEMMTACQGVGGPGHKARV	IIIB p24-β-gal fusion	murine(IgG <sub>1</sub> )
			◦ [Niedrig et al.(1991)]		
			• 106/01: Cross-reactive between HIV-1, HIV-2 and SIV MAC by multiple tests [Niedrig et al.(1991)]		

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Location	Name	MAb	Peptide	Immunogen	Species(isotype)
p24(357-362 BRU)	LH-104-B	y	GHKARV	Peptide	murine(IgG <sub>1κ</sub> )
	o References				o [Haaheim et al.(1991)]
	• Comments				• LH-104-B: Binds exclusively with p55 (not p24), in contrast to LH-104-I [Haaheim et al.(1991)]
p24(358-363 BRU)	LH-104-I	y	HKARVL	Peptide	murine(IgG <sub>1κ</sub> )
	o References				o [Haaheim et al.(1991)]
	• Comments				• LH-104-I: Binds exclusively with p24 (not p55), in contrast to LH-104-B [Haaheim et al.(1991)]
p24(363-368 BRU)	LH-104-G	y	LAEAMS	Peptide	murine(IgG <sub>1κ</sub> )
	o References				o [Haaheim et al.(1991)]
	• Comments				• LF-104-G: Reacts with both p24 and p55 [Haaheim et al.(1991)]